

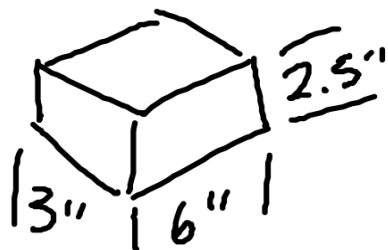
Convert 35 mi to km

$$\frac{35 \text{ mi}}{1 \text{ mi}} \times \frac{1.6 \text{ km}}{1 \text{ mi}} = 56.35 \text{ km}$$

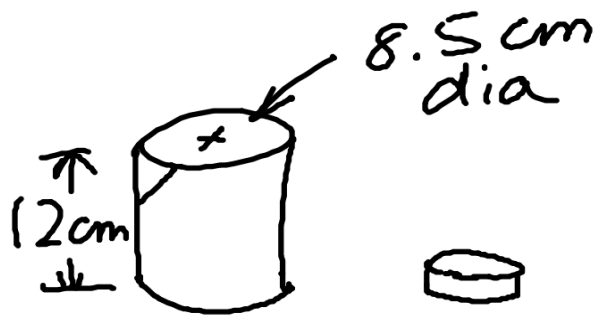
Convert 370# to kg

$$\frac{370 \text{ lbs}}{1} \times \frac{1 \text{ kg}}{2.20 \text{ lbs}} = \frac{370 \text{ kg}}{2.20} = \underline{\underline{168.18 \text{ kg}}}$$

FIND Volume of Brick



$$V = 3 \cdot 6 \cdot 2.5 = 45 \text{ in}^3$$



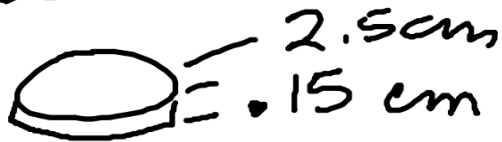
$$h = 12 \text{ cm}$$

$$d = 8.5 \text{ cm}$$

$$r = \frac{d}{2} = 4.25 \text{ cm}$$

$$\begin{aligned} V_{\text{cylinder}} &= \pi r^2 h \\ &= \pi (4.25 \text{ cm})^2 \times 12 \text{ cm} \\ &= 680.94 \text{ cm}^3 \end{aligned}$$

VOLUME of QUARTER



$$d = 2.5 \text{ cm}$$

$$h = .15 \text{ cm}$$

$$r = \frac{d}{2} = 1.25 \text{ cm}$$

$$V_{\text{CYL}} = \pi r^2 h$$

$$= \pi (1.25 \text{ cm})^2 (.15 \text{ cm})$$

$$= .74 \text{ cm}^3$$

Sphere

$$\text{dia} = 23 \text{ cm } r = 11.5 \text{ cm}$$

$$V_{\text{sph}} = \frac{4}{3} \pi r^3$$

$$= \frac{4}{3} \pi \underset{\text{cm}}{11.5} \times \underset{\text{cm}}{11.5} \times \underset{\text{cm}}{11.5}$$

$$= 6370.63 \text{ cm}^3$$